

Date: August 15, 2003

MAIL STOP PATENT APPLICATION  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

08/15/03  
SIR:  
PRO

EV301024409US

## NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): (1) Ananthasankaran Jayalekshmy  
(2) Chami Arumughan  
(3) Kizhiyedathu Polachira Suja

NOTE: Patent must be applied for in the name of all  
of the actual inventor or inventors.

For: "PROCESS FOR EXTRACTION OF ANTIOXIDANTS FROM SESAME  
SEED/CAKE"

Enclosed are:

1. The Papers Required For Filing Date Under 37 CFR 1.53(b):

25 Pages of description 1 Page of abstract 2 Pages of claims

12 Sheets of drawings [X] formal [ ] informal  
(Figs. 1, 1a, 2-11)

[X] In addition to the above papers there is also attached

Postcard

Unsigned Declaration/Power of Attorney (4 pages)

Claim to Priority (1 page)

Copy of U.S. Application No. 60/404,004 consisting of:

- Provisional Application for Patent Cover Sheet (4 pages);
- 33 Pages of Specification  
(including 28 pages of Description, 2 pages of Claims,  
1 Page of Abstract, 2 pages of Legend for  
abbreviations used in the patent text/Figures);
- 12 sheets of Drawings  
(Structures 1-3, Figures 1, 1a, 2-10);
- Annexure IV, which includes a Cover Page (2 pages) and  
copies of the following references:
  - (1) Title Page, Preface, and pages 64 to 65 of Natural Antioxidants: Chemistry, Health Effects, and Applications;  
Editor Fereidoon Shahidi; Department of Biochemistry  
Memorial University of Newfoundland; St. John's,  
Newfoundland, Canada (4 pages);
  - (2) Abstract of "Process for extracting antioxidants from Labiateae herbs," U.S. Patent No. 5,017,397 issued on May 21, 1991 (1 page);
  - (3) Abstract of "Process for manufacture of natural antioxidant products from tea and spent tea;" U.S. Patent No. 5,043,100 issued on May 21, 1999 (1 page);
  - (4) Abstract of "Lipid-soluble green tea catechin antioxidant solutions;" U.S. Patent No. 5,527,552 issued on June 18, 1996 (1 page);
  - (5) Claims 1-8 of "Lipid-soluble green tea catechin antioxidant solutions;" U.S. Patent No. 2,159,465 issued on August 25, 2000 (2 pages);

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(continued)

- (6) Title Page, pages 464-467, 470-471, 474-475 of Bailey's Industrial Oil and Fat products, Fifth Edition, Volume 2, "Edible Oil and Fat Products, Oil and Oilseeds;" Edited by Y.H. Hui (7 pages);
- (7) Pages 773-776 of "Sesaminol Glucosides in Sesame Seeds;" Hirotaka Katsuzaki, Shunico Kawakishu and Toshihuso Osawa; Department of Food Science and Technology; Nagoya University, Chikusa, Nagoya 464-01, Japan (4 pages);
- (8) Pages 220-226 of "Antioxidative effects of sesamol and tocopherols at various concentrations in oil during microwave heating;" Hiromi Yoshida and Sachiko Takagi (7 pages);
- (9) Title Page and pages 168-168 of Principles of Food Science; Edited by Owen R. Fennema, "Part I: Food Chemistry;" Department of Food Science Co.; University of Wisconsin-Madison, Wisconsin (3 pages);
- (10) Pages 1079-1086 of "Antioxidant activity of Oat Extract in Soybean and Cottonseed oils" (8 pages);
- (11) Pages 281, 285-288, 291-296, 311-325 of "The Chemistry and Physiological functions of sesame," Mitsuo Namiki; Nagoya University; Chikusa-ku, Nagoya, Japan 465; Tokyo University of Agriculture; Setagaya-ku, Tokyo, Japan 156 (26 pages); and
- (12) Pages 1027-1030 of "Solution of lignan Analogues to Antioxidative Activity of used unroasted Sesame Seed Oil" (4 pages);
- Annexure VI (2 pages); and
  - Annexure VII (1 page)

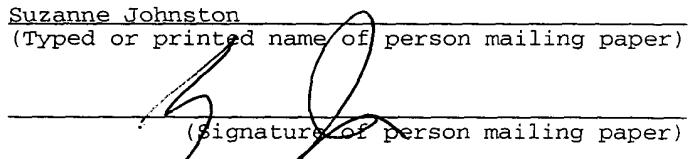
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CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this paper and the documents referred to as enclosed therein are being deposited with the United States Postal Service in an Express Mail envelope with sufficient postage for Express Mailing on this date August 15, 2003 in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EV301024409US addressed to the:

MAIL STOP PATENT APPLICATION  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Suzanne Johnston  
(Typed or printed name of person mailing paper)

  
(Signature of person mailing paper)

NOTE: Each paper or fee referred to as enclosed herein has the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 CFR 1.10(b).

**2. Declaration or oath**

[ ] Enclosed

[ ] original [ ] facsimile

executed by:

[ ] inventor(s)

[ ] legal representative of inventor(s) 37 CFR 1.42 or 1.43

[ ] joint inventor or person showing a proprietary interest  
on behalf of inventor who refused to sign or cannot be  
reached. 37 CFR 1.47.

[ ] petition and statement required by 37 CFR 1.47  
also attached. See item 7 below for fee.

[X] Not Enclosed

[X] Application is made by a person authorized under 37 CFR  
1.41(c) on behalf of all of the above named inventor(s). The  
declaration or oath, along with the surcharge required by 37  
CFR 1.16(e) can be filed subsequently.

[ ] Showing that the filing is authorized. (Not required  
unless called into question. 37 CFR 1.41(d)).

NOTE: Where the filing is a completion in the U.S. of an international  
application under 35 U.S.C. 371(c)(4) then the declaration must  
be filed.

**3. Assignment**

[ ] An assignment of the invention to

**4. Certified Copy**

[ ] A certified copy of Patent Application No.  
from which priority is claimed.

NOTE: Must be referred to in oath or declaration. 37 CFR 1.55 and 163.

**5. Fee Calculation**

CLAIMS	AS FILED		
Number Filed	Number Extra	Rate	Basic Fee \$ 750.00
Total Claims	17 -20=	0 x	\$ 18.00 0
Independent Claims	2 -3=	0 x	\$ 84.00 0
Multiple Dependent Claim(s), If Any		0 x	\$280.00 0

[ ] Amendment canceling extra claims enclosed

[ ] Amendment deleting multiple dependencies enclosed

[ ] Fee for extra claims is not being paid at this time

NOTE: If the fee for extra claims are not paid on filing they must be  
paid or the claims canceled by amendment, prior to the expiration of the  
time period set for response by the Patent and Trademark Office in any  
notice of fee deficiency, 37 CFR 1.16(d).

Filing Fee Calculation \$ 750.00

**6. Small Entity Statement**

Verified statement that this is a filing by a small entity under 37 CFR 1.9 and 1.27.

Filing Fee Calculation (50% of above) \$ \_\_\_\_\_

NOTE: If a verified statement is filed within 2 months of the date of payment of first fee then the excess fee paid will be refunded on request. Notice of January 20, 1983. 1027 TMOG 114.

**7. Fee Payment Being Made At This Time**

Not Enclosed

No filing fee is submitted. This and the surcharge required by 37 CFR 1.16(e) can be paid subsequently.

NOTE: Where the filing is a completion in the U.S. of an international application the fee must be paid.

Enclosed

filing fee \$ \_\_\_\_\_

recording assignment (\$40.00; 37 CFR 1.21(h)(i)) \$ \_\_\_\_\_

petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached. 37 CFR 1.47 and 1.17 (h) \$ \_\_\_\_\_

Total fees enclosed \$ \_\_\_\_\_

**8. Method of Payment of Fees**

check in the amount of \$ \_\_\_\_\_

charge account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_. A duplicate of this transmittal is attached.

NOTE: Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 CFR 1.22(b).

**9. Authorization to Charge Additional fees**

The Commissioner is hereby authorized to charge the following additional fees which may be required to Account No. \_\_\_\_\_:

37 CFR 1.16 (filing fees and presentation of extra claims)

37 CFR 1.17 (application processing fees)

37 CFR 1.18 (issue fee at or before Mailing of Notice of Allowance, pursuant to 37 CFR 1.311(b))

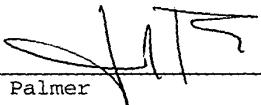
NOTE: 37 CFR 1.28(b) requires "Notification of any change in loss of entitlement to small entity status must be filed in the application...prior to paying... issue fee".

**10. Instructions As To Overpayment**

Credit Account No. \_\_\_\_\_  refund

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